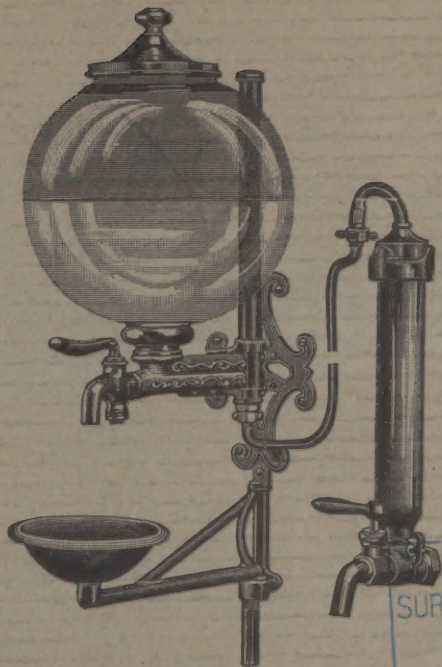


Boston (THE) Water purifier



PATENT ALLOWED.

The Boston Water Purifier.

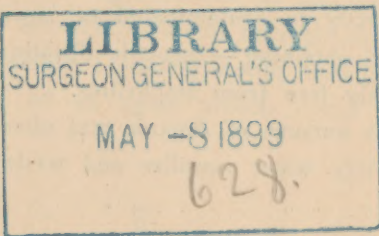
MANUFACTURED BY THE
BOSTON FILTER COMPANY,
37 Broadway, Chelsea, Mass.

SALESROOM, 39 Boylston St.,
BOSTON.

MAY - 8 1899

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The Boston Water Purifier.



FILTERS.



THE growing demand and absolute necessity of obtaining water pure and wholesome for drinking and other domestic purposes is a matter for very serious consideration. The rapid advancement of the present day in hygienic and sanitary research has turned the attention of the medical profession to the fact that all zymotic diseases, such as typhoid fever, cholera, dysentery, diphtheria, and all other diseases of a similar character, are to be traced directly to contaminated or impure water; hence the importance of obtaining—through filtration and purification—water absolutely free from impurities.

The great amount of organic and nitrogenous matter to be found in all city water supplies and wells produces that most

dangerous element, "albuminoid of ammonia," which feeds and sustains these micro-organisms that cause the above mentioned diseases.

Notwithstanding these facts, perhaps no great source of disease receives so little attention from the general public as the purity of its water supply. From the very fact that it enters so freely into our daily lives, we have become accustomed to look upon it with indifference, and regard it as an unpleasant or disagreeable feature, rather than a positive source of danger demanding the strongest measures for correction. If the public could once be brought to a full appreciation of the impurities which they are daily taking into their systems through our contaminated water supplies, no further argument would need be presented of the positive necessity of an agent which could eradicate this poisonous matter.

The problem of obtaining a water supply absolutely pure and free from this dangerous contamination is solved by the **BOSTON WATER PURIFIER**, which we guarantee to furnish water freed from "germs of disease," as well as from all deleterious matter held in suspension, and all dangerous gases, coloring matter, or vegetable poisons held in solution. It is the only water purifier of which we have any knowledge that will remove from water matter held in solution.

We have had long experience in the filtration and purification of water, and thoroughly comprehend and appreciate the defects of all other filters upon the market, and we do not hesitate to make the broad claim that the **BOSTON WATER PURIFIER** has no equal. It not only renders the water pure, but maintains it in an aseptic condition by storage in glass reservoirs, thus obviating the danger of contamination from metallic oxides—unhealthful if not poisonous.

Selection of a Filter or Purifier.

IN the selection of a filter it is of the utmost importance to the purchaser that his choice should meet the requirements of a perfect water purifier in every sense of the word. It should be capable of being easily cleansed, without changing the filtering or purifying medium, and should preserve the filtered water in its purified state.

We advance as reasons for this selection of the **BOSTON WATER PURIFIER** in preference of any others that,

FIRST: It is germ proof, and mechanically removes from water all suspended matter of whatever nature.

SECOND: By filling the tube with Granulated Carbon, it removes from water—by absorption and oxidation—all poisonous gases, coloring matter, and all other deleterious impurities held in solution. The eminent scientist, Dr. Letheby, of London, in a

communication to the *Civil Engineer*, of London, says: “Carbon is the best and most effective oxidizer known, beyond question. The purifying power of carbon is not merely dependent on the filtration or physical absorption of organic matter, but also on its power of oxidation, or as a power of bringing the oxygen dissolved or liberated in the water into chemical unison with the organic matter, and thus destroying it.”

THIRD. The purified water is preserved in its pure state by storing in glass or porcelain reservoirs, avoiding the absorption of metallic oxides and the formation of verdigris, so common when either brass or copper reservoirs are used.

The **BOSTON WATER PURIFIER** meets all these demands, and we claim that it is, beyond doubt, the most perfect water purifier that has ever been placed on the market.

THE PURIFYING MEDIUM.

PRICE OF EXTRA TUBE, 50 CENTS.



IT is an unglazed, porous porcelain tube, made exclusively of American clays, which we find peculiarly adapted to this purpose. The tube is ten inches in length and one and one-quarter inches in diameter, and is of such fine quality and the porosity so close as to prevent the passage of all micro-organisms, however minute. Their construction is exceedingly uniform, all being alike in porosity, size and thickness, and the filtering power of each tube the same. These tubes are made by machinery which we have especially constructed for the purpose and upon which we have letters patent. Every tube is thoroughly tested before leaving the factory and the possibility of finding an imperfect one reduced to a minimum.

We claim for this purifier superior advantages over all others, especially in the purification of rain water, the most healthful of all waters for drinking purposes.

The tube is filled with granulated carbon, prepared especially for us, through which the water passes after having been freed from all suspended impurities in its passage through the porcelain tube. The carbon absorbs all organic matter and vegetable poisons held in solution, yielding the water sparkling in clearness and purity. The carbon parts with the impurities absorbed by it only by means of fire, and can by that means be renewed as often as desired.



BOSTON WATER PURIFIER No. 1.

"DIRECT DELIVERY NO. 1."

COMPLETE WITH CONNECTIONS, \$7.00.

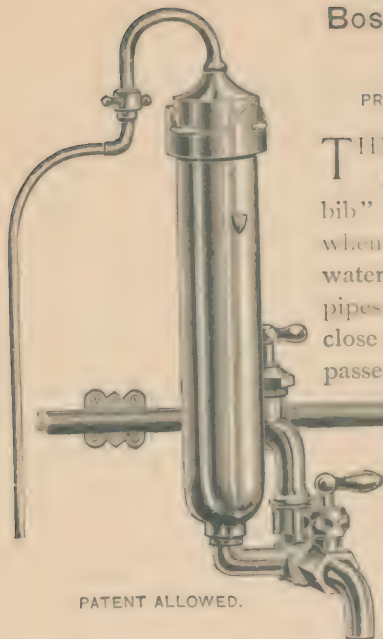
THIS cut represents a sectional view of the filter case and tube in position. The lower end is threaded and screws on to the faucet connection supplied with each filter. The water enters at this point, surrounds the tube, and is forced through the walls of the porcelain cup and discharged through the goose-neck at the top. All suspended matter is arrested and lodged on the outer surface of the tube, and is readily removed with a hard brush and either hot or cold water.

PATENT ALLOWED.

Boston Water Purifier No. 1.

DIRECT DELIVERY

PRICE, TINNED, \$7.00; NICKEL PLATED, \$9.00.



PATENT ALLOWED.

THIS cut represents our "No. 1 Direct Delivery" screwed upon the "Hose-bib" over the sink. The lower faucet—when left open—allows the unfiltered water to flow direct from the water pipes. When filtered water is required close the lower faucet, and the water passes through the filter.

To cleanse the tube, close the upper faucet; to shut off the pressure, turn the lock collar to the left, lift out the tube, and without removing it from the rubber gasket which holds it, scrub vigorously with brush and hot or cold water until all sed-

iment is removed from the outer surface of the tube.

This Filter will furnish five to ten gallons per day if kept clean.



Boston Water Purifier No. 2.

"DIRECT DELIVERY No 2," \$13.00.

THIS cut represents the No. 2 Filter, attached to the faucet connection shown in the cut. It will be observed that both filters discharge the water into one block tin pipe, leading to the reservoir, which can be placed in the most convenient location.

These filters are placed over the kitchen sink, and do not interfere with the drawing of unfiltered water.



PATENT ALLOWED.

Boston Water Purifier No. 3.

"DIRECT DELIVERY NO. 3," \$18.00.

THIS cut represents the filters in position.

Each filter is connected by means of the block tin pipe to the small collector at the top, from which the single pipe of block tin conveys the purified water to the reservoir.

The cleansing of these filters is quickly done, and without danger of breaking the tube. Turn off the pressure by closing the small cock at the lower end of the tube case,

unscrew the small union connecting the goose-neck with the block tin pipe; turn the lock collar to the left enough to free it from the lugs that hold it. Lift out the tube, and without removing it from the cap or rubber gasket which holds it, brush until clean with small brush accompanying each filter.

The connections for Nos. 1, 2 and 3 filters are designed for the Fuller Faucet, and are quickly connected without plumbing.

Pressure Filters. BOSTON WATER PURIFIERS.

NO. 1 STANDARD, PRICE \$15.00.

With Drip-cup, \$16.50.



Drip cup \$1.50 extra

PATENT ALLOWED

THIS cut represents our Standard Water Purifier for family use. The glass globe, holding two gallons, is screwed upon the bracket from which the water is drawn. Behind the glass globe is a pipe extending to the top, containing the automatic valve which stops the flow of water when the globe is filled.

The water enters the globe at the bottom of the valve from the block tin tube leading from the filter. The filter is connected with the Fuller Faucet over the kitchen sink, thus avoiding the slopping of water where the globe is situated. The globe bracket is screwed to the wall in the dining room, or any other convenient place. The tubes connecting the filter with the globe can be painted or bronzed, or hidden by the wall paper. The drip cup shown in the cut conveys waste water by means of a pipe to the sink or any other convenient outlet. All of the connections are pure block tin.

This is the only filter that can be so arranged, and its convenience will be appreciated by those using it.

GRAVITY FILTERS.

THE increasing demand for a practical water purifier of the non-pressure or gravity style, has as yet been unsupplied in a convenient and compact form. We have made a special study of that class of filters, and feel confident that in presenting our gravity filter to the public we have met that demand. They are simple in construction, perfect in all their appointments, and offered at a price within the reach of all.

This method of purification of water is even more practical and convenient than where the filter is attached directly to the water pipes. The simple weight of the water contained in the tank forcing itself through the minute pores of the porcelain tubes does not firmly implant the impurities on the surface of the tubes, as is done by the direct pressure from the mains, thus obviating the necessity of frequent cleansing and purification of the tubes.

We guarantee our filters to be "absolutely germ proof," and by our perfect system of storage of purified water to maintain it in an aseptic condition. No contamination can reach it from atmospheric sources; no poisonous oxides from metallic reservoirs. The water remains pure and sweet indefinitely in the glass receptacle.



GRAVITY FILTERS. BOSTON WATER PURIFIER.

"C," 8 Tubes, \$15.00.

THE accompanying cut illustrates a sectional view of our **Gravity Purifier**. The porcelain tubes are suspended by means of close-fitting, pure rubber gaskets, which are attached to the collectors by means of small thumb-screws on their inside. Each collector holds four tubes, and are connected by means of a small ground union to each other. The outlet from the collectors is also connected by means of the ground union to the block tin pipe leading from them into

the glass globe below, through which the purified water is discharged into the globe reservoirs.

The block tin tube leading from the reservoir to the top of the tank allows the air in the globe to escape as it is being filled with water, and also admits air when the globe is being emptied, and serves as an overflow when the globe is filled, carrying the water back to its level in the tank, when filtration ceases. Thus you will observe that no danger can arise from overflow of water as is the case with other filters of the non-pressure style.

We take great pleasure in recommending this water purifier to the public; it meets with a growing demand from all parts of the country, especially where there is no system of public water supply.

We cannot urge too strongly upon the attention of those for whom it is not safe — on account of kidney trouble — to drink water containing lime or other inorganic solids in solution. It will be seen how practical — from their position — it is to fill the tubes with

granulated carbon, spongy iron, or any other absorbent or deodorizing substance, whereby the water is rendered absolutely pure by absorption and oxidization of all organic substances held in solution.

This is the only filter upon the market of which we have any knowledge where the filtered water comes in direct contact with purifying agents, and undergoes a double purification. Owing to the fact that the porcelain tube retains on its outer surface all matter of whatever nature, the purifying material on the inside of the tube retains its oxidizing powers for an almost indefinite period, and can be restored by placing it in the oven of the stove or range until the oxygenized matter is burned out, when it becomes as effective as when new.



PATENTS PENDING.

GRAVITY FILTERS. BOSTON WATER PURIFIER.

"A" No. 4, PRICE \$8.

THE accompanying cut represents style A which contains four tubes and one collector. The tank holds five gallons of water, and from the position of the tubes—standing up instead of being suspended—will furnish from six to seven gallons of purified water per day. The style of filter will be found very convenient for many families, as it can be placed in a corner out of the way or in the cellar where the water will be kept cool.

GRAVITY STYLE. BOSTON WATER PURIFIER.

"B," 4 TUBES, \$10.00; 8 TUBES, \$13.00.

THE accompanying cut of Style **B** shows the filter in operation as it is hung upon the wall.

The No. 4 B contains four tubes and one collector. The No. 8 B eight tubes and two collectors. The No. 4 furnishes six gallons per day by being filled morning, noon and evening. The No. 8 double that quantity.

The tank in which the tubes and collectors are placed holds five gallons of water. The height of the water above the tubes produces the pressure which causes the flow from them. It will be seen, therefore, in order to obtain purified water in quantities it will be necessary to keep the tank filled. The bottle reservoir holds one gallon.

PATENTS PENDING.





PATENT PENDING.

GRAVITY FILTERS. BOSTON WATER PURIFIER.

"C," 4 Tubes, \$12.00; 8 Tubes, \$15.00; 12 Tubes, \$18.00.

STYLE C.

THIS filter is also intended to hang at a convenient height, so that it will be easily reached to fill. The tank holds seven gallons. No. 4 contains four tubes and will purify six to seven gallons per day. No. 8 C contains eight tubes and will purify eight to ten gallons per day.

It will be observed that when the tank is full filtration is the most rapid; therefore, as a larger amount of water is needed, the tank must be kept filled.



GRAVITY FILTERS.

BOSTON WATER PURIFIER.

"D," 4 TUBES, \$15.00; 8 TUBES, \$18.00; 12 TUBES, \$21.00;
16 TUBES, \$24.00.

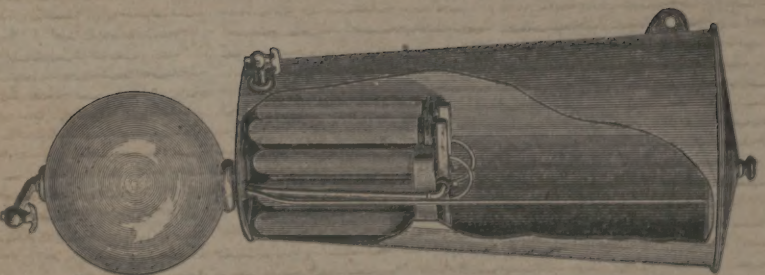
STYLE D.

THIS filter will be found very convenient and will supply more purified water with the same number of tubes than any of the other styles, on account of its height and the amount of water contained in the tank, which holds nine gallons and consequently does not require so frequent filling.

We make this style with four, eight, twelve and sixteen tubes. It will furnish ten, fifteen and twenty gallons of purified water per day, according to number of tubes it contains.

BOSTON WATER PURIFIER.

GRAVITY SYSTEM.



For Description see page 18.